

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 September 2003 (12.09.2003)

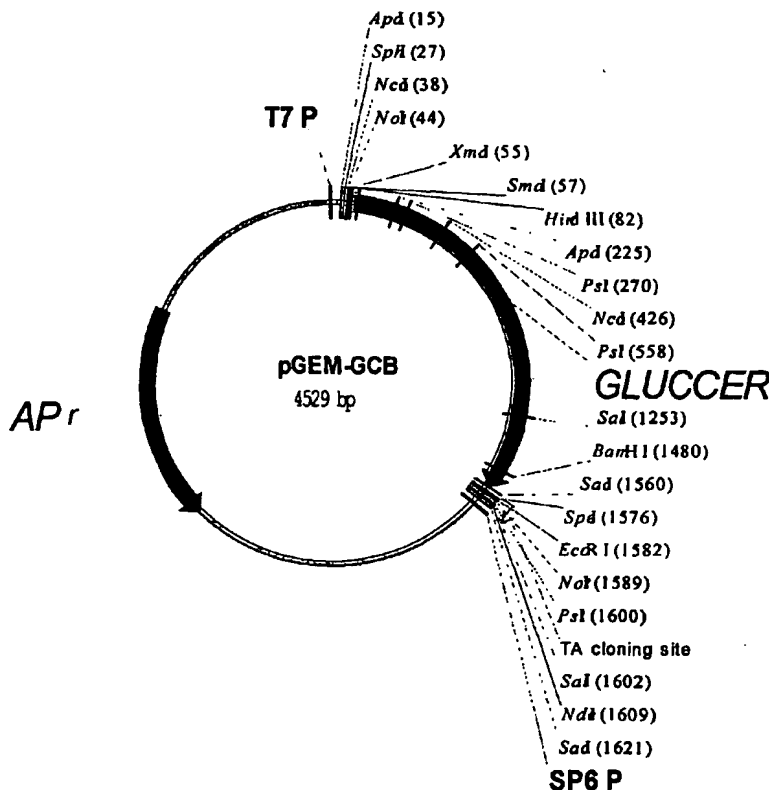
PCT

(10) International Publication Number
WO 03/073839 A2

- (51) International Patent Classification⁷: A01H 5/00, 5/10, C12N 15/82, 9/24
- (21) International Application Number: PCT/IT03/00120
- (22) International Filing Date: 3 March 2003 (03.03.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: RM2002A000115 1 March 2002 (01.03.2002) IT
- (71) Applicant (for US only): PLANTECHNO S.R.L [IT/IT]; Via Staffolo 60, I-26040 Vicomosciano (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FOGHER, Corrado [IT/IT]; Via Ticino, 32, I-26041 Casalmaggiore (IT).
- REGGI, Serena [IT/IT]; Via Capra 28, I-29100 Vicenza (IT).
- (74) Agents: GERMINARIO, Claudio et al.; Società Italiani Brevetti, Piazza di Pietra, 39, I-00186 Roma (IT).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: IN-SEED EXPRESSION OF LYSOSOMAL ENZYMES



(57) Abstract: The present invention relates to the production of transgenic plants able to express, in seed storage tissues, a lysosomal enzyme in enzymatically active form and in amounts appropriate to its use in enzyme replacement therapy. In particular, the present invention relates to plants and seeds containing this enzyme.

WO 03/073839 A2

BEST AVAILABLE COPY